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TITLE: OPTICAL RETRIEVING PROCESSOR

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ABSTRACT:

PURPOSE: To attain rapid retrieving processing by using an optical address type spatial light modulating element and an electric address type spatial light modulating element and collectively detecting light beams read out from plural pixels.

CONSTITUTION: Data to be retrieved which are holographically recorded in an optical memory 13 are read out by a laser 15 and its data pattern image is written in the optical address type spatial light modulating element 17. On the other hand, retrieving data are written in the electric address type spatial light modulating element 18. Reading light is made incident upon the element 18, a polarizing state is changed in accordance with the retrieving data and its transmitted light is reflected by a half mirror prism 20 to form the image on the reading face of the element 17. The existence of light beams read out from plural pixels is collectively detected by a photodetector array 21. Consequently, the coincidence of plural bits between the retrieved data and the retrieving data can be collectively and rapidly detected.

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